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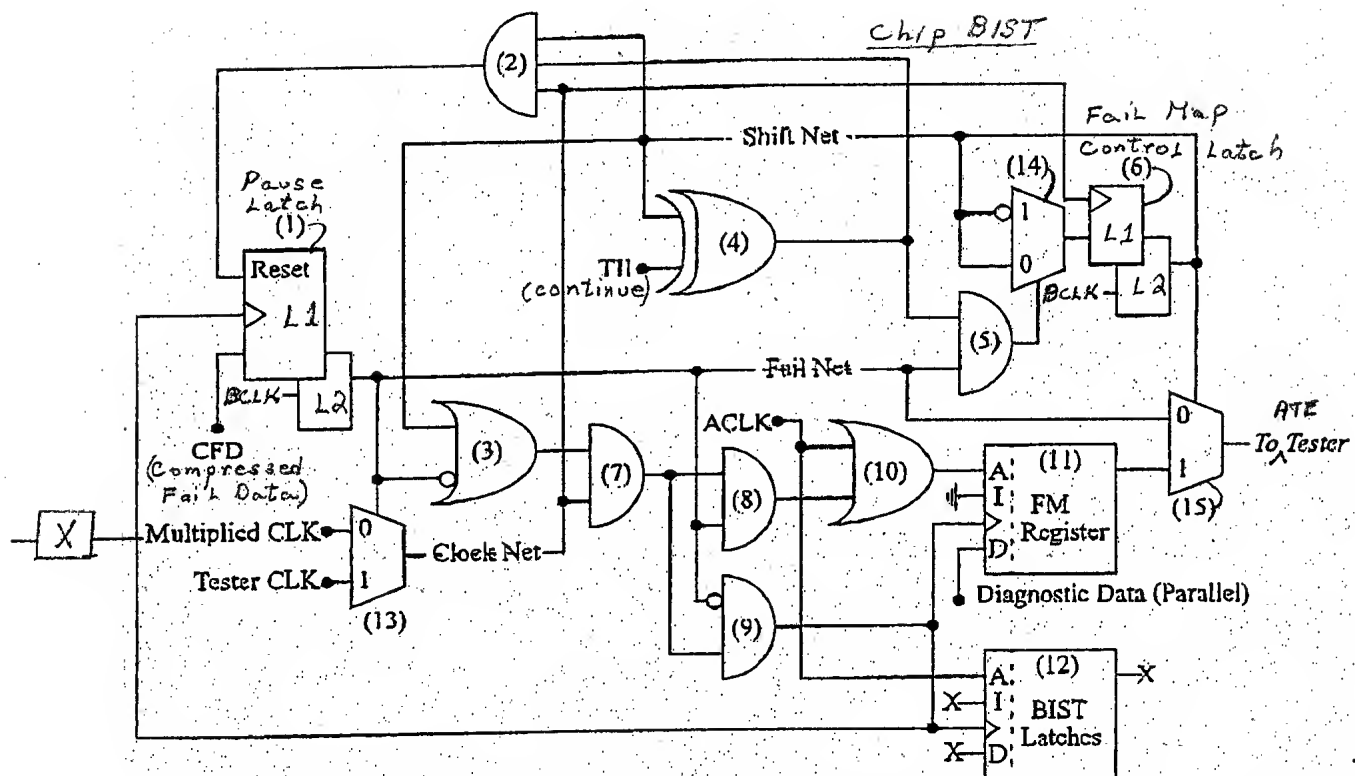


Figure 1: Fail Map Circuit

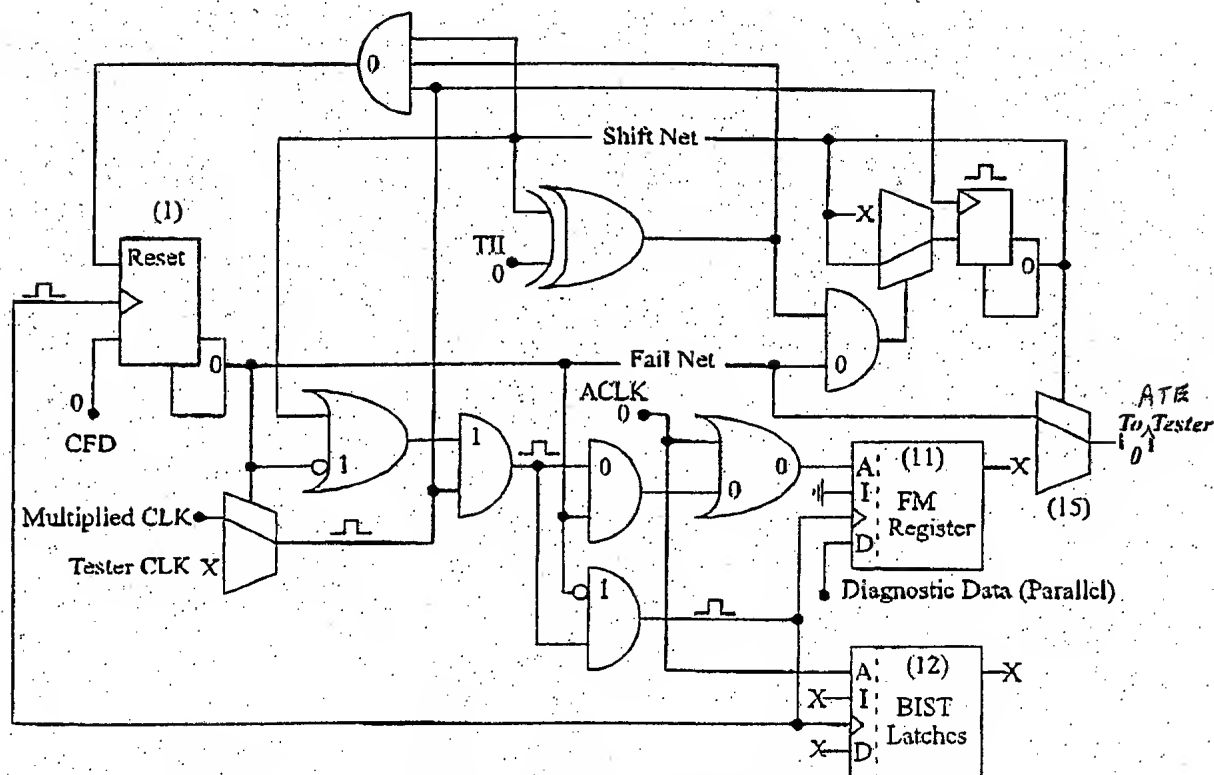


Figure 2: Fail Mapping before fail

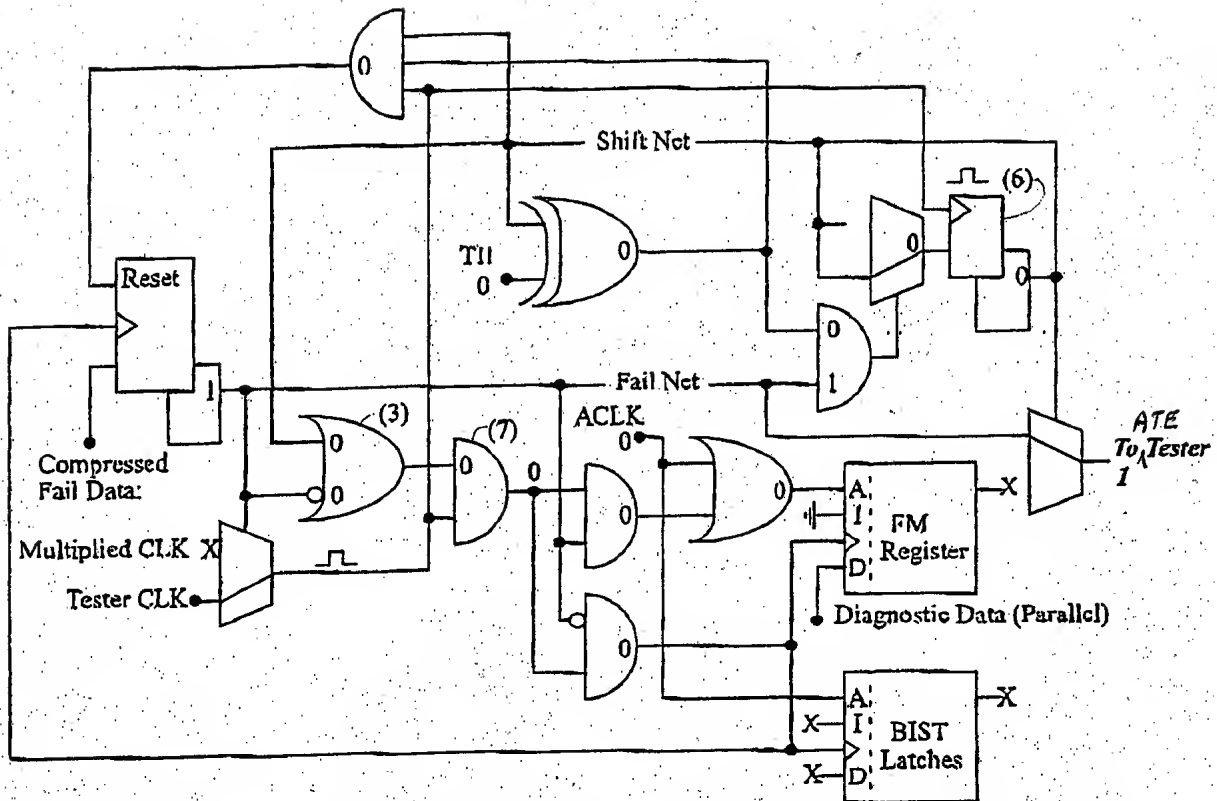


Figure 3: Fail Net asserted

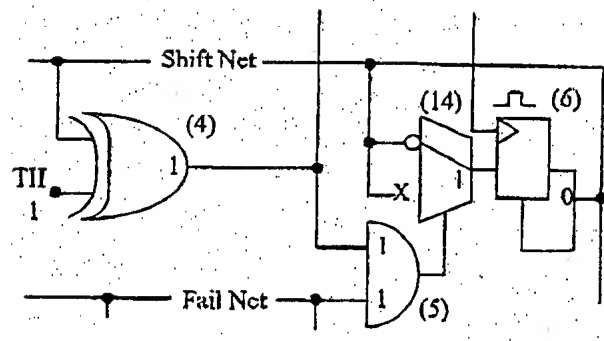


Figure 4: Asserting TII asserts Shift Net(+)

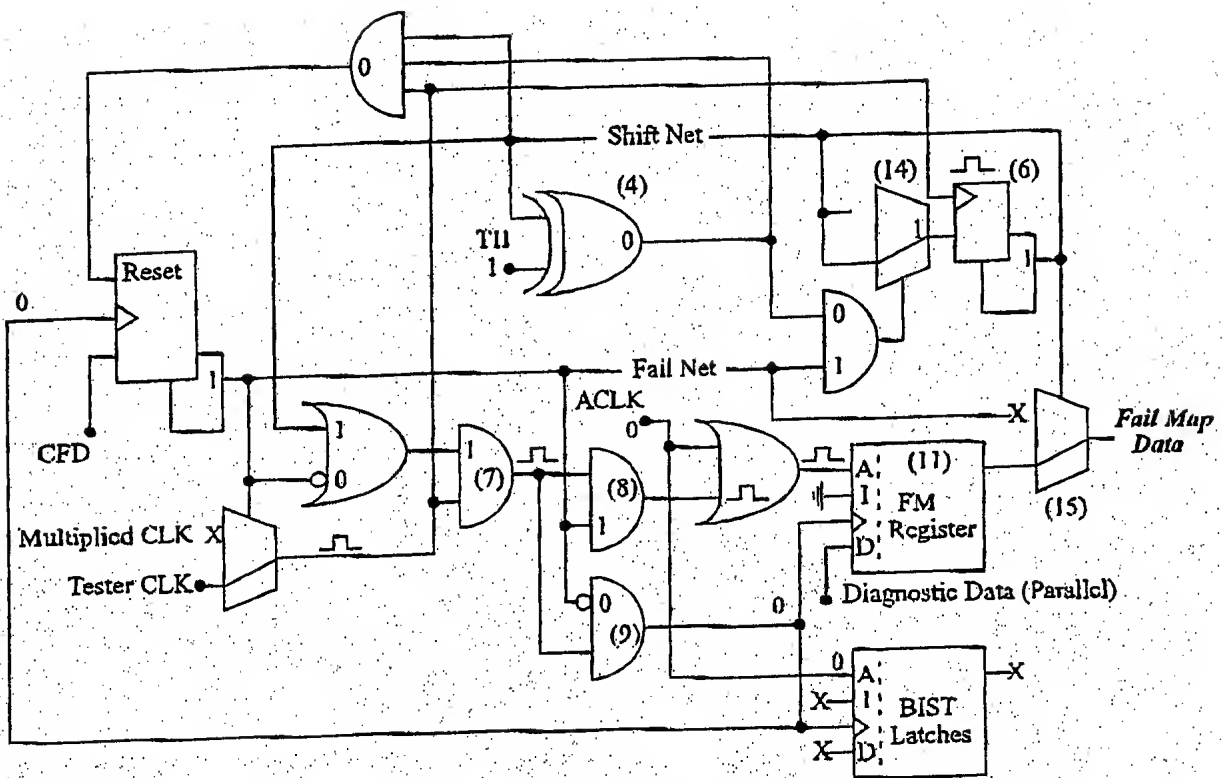


Figure 5: Fail Map Shift Out

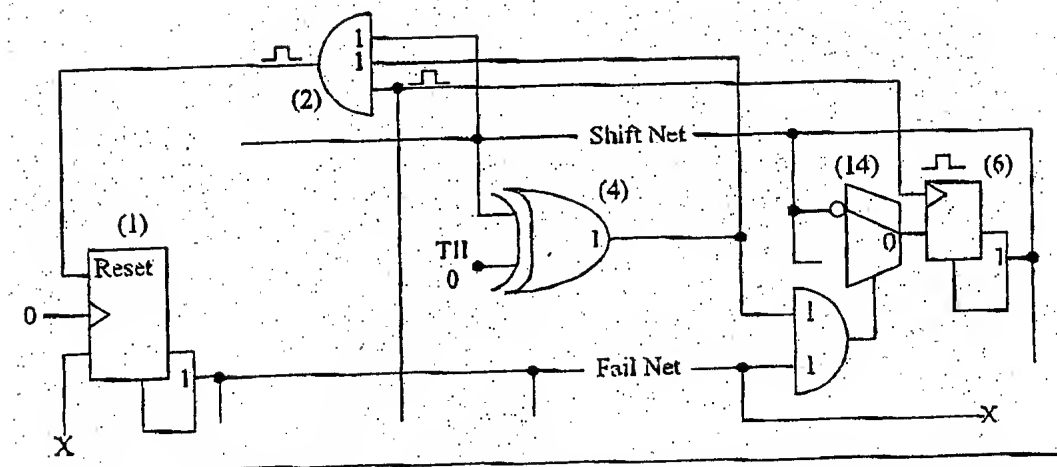
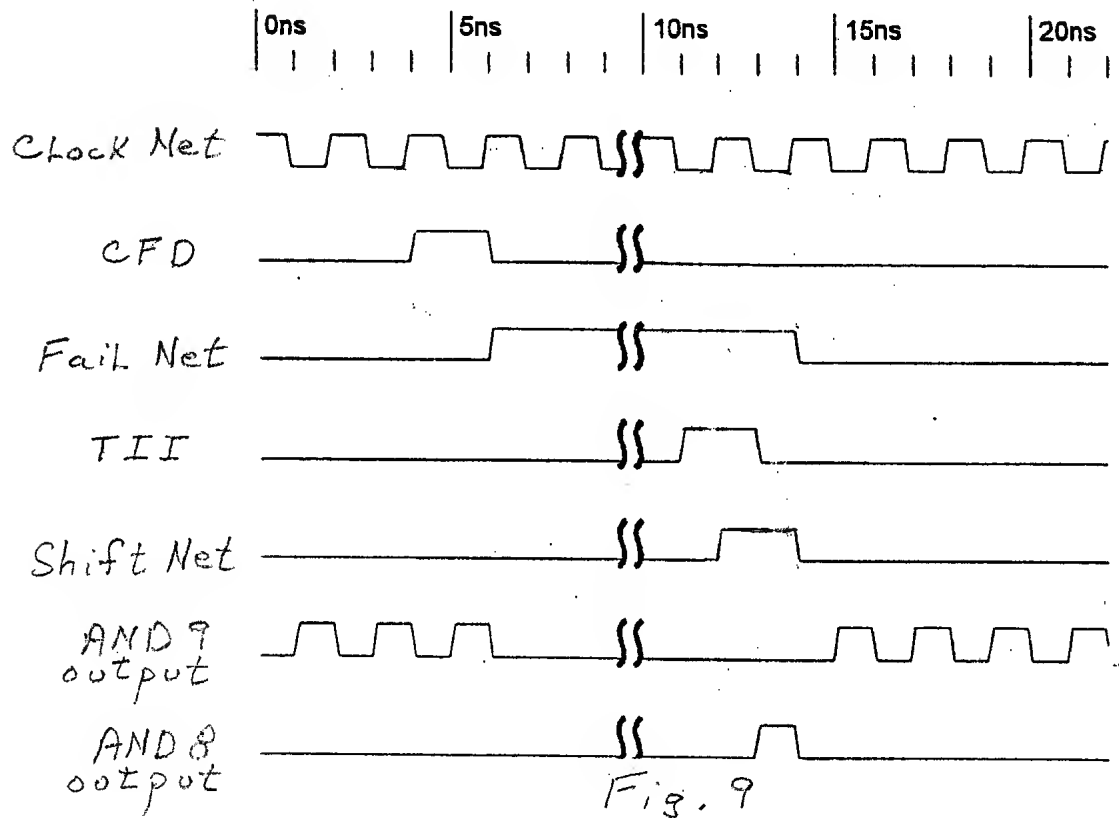
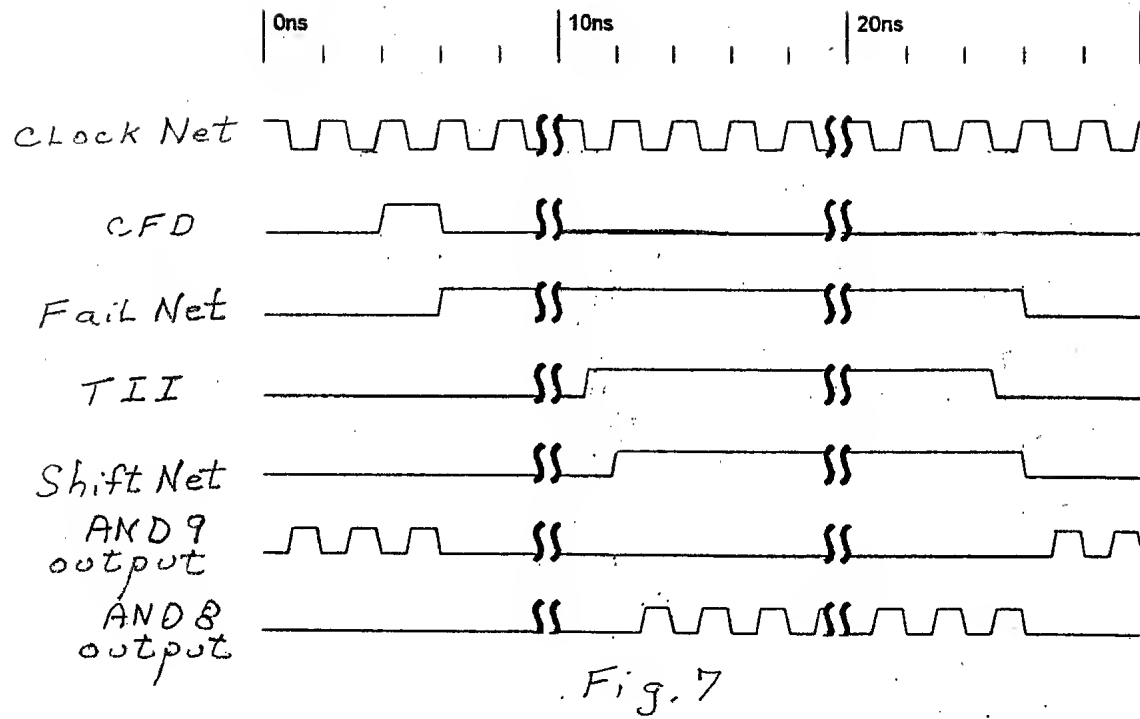


Figure 6: Clearing TII resets Latch 1 (Fail Net) and Latch 6 (Shift Net)



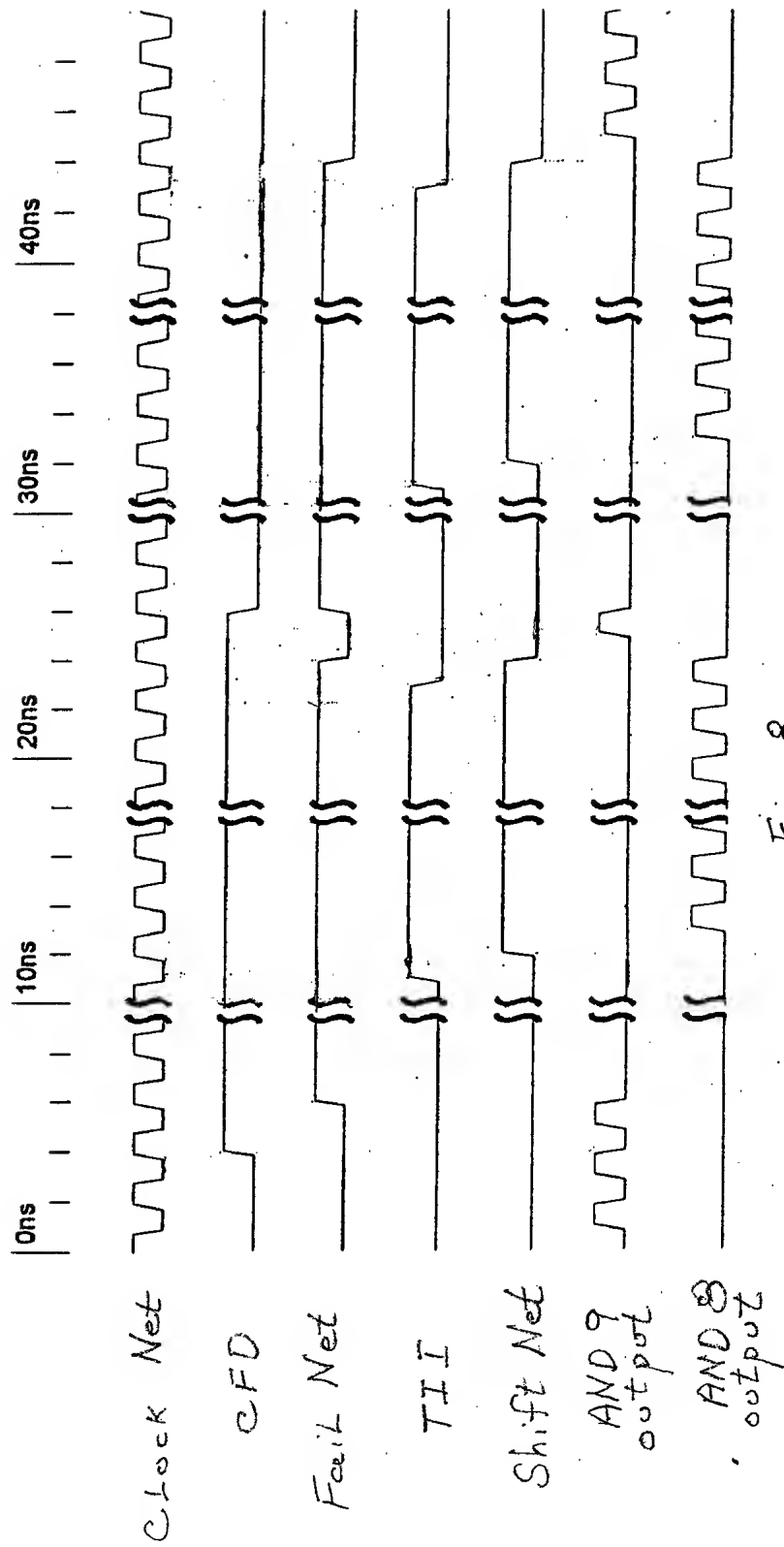


Fig. 8